

Supplementary Table 1. Equations and examples of metabolic syndrome severity score

Sex	Equation (40–59 years)	Example
Men	$8.2939 + 0.0126 \times \text{FPG} + 0.0063 \times \text{SBP} + 0.0382 \times \text{WC} - 0.0210 \times \text{HDL} + 0.8432 \times \ln(\text{TG})$	Age 45 years, FPG 110 mg/dL, SBP 150 mm Hg, WC 95 cm, HDL 30 mg/dL, TG 160 mg/dL → Patient's metabolic syndrome Z-score: 1.315486561 → Patient's the top risk of metabolic syndrome: 9.42% ^a
Women	$-7.5210 + 0.0156 \times \text{FPG} + 0.0073 \times \text{SBP} + 0.0292 \times \text{WC} - 0.0207 \times \text{HDL} + 0.9065 \times \ln(\text{TG})$	Age 53 years, FPG 80 mg/dL, SBP 120 mm Hg, WC 70 cm, HDL 70 mg/dL, TG 80 mg/dL → Patient's metabolic syndrome Z-score: 1.315486561 → Patient's the top risk of metabolic syndrome: 79.66% ^a

FPG, fasting plasma glucose; SBP, systolic blood pressure; WC, waist circumference; HDL, high density lipoprotein; TG, triglyceride.

^aMetabolic syndrome Z-score for predicting the presence of metabolic syndrome.